

Notice of Allowability**Application No.**

10/596,642

Examiner

NATHAN ZOLLINGER

Applicant(s)

SMITH, ALAN

Art Unit

3746

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to an amendment filed on December 2, 2010.
2. ☒ The allowed claim(s) is/are 13-15, 19-24, 27 and 30-41.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☒ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date ____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 20101207.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other ____.

/N. Z./
Examiner, Art Unit 3746

/Devon C Kramer/
Supervisory Patent Examiner, Art Unit 3746

Detailed Action

Response to Amendment

The amendment filed on December 2, 2010 has been entered. Claims 13, 15, 19, 21, 22, 23, 27, 30-35 have been amended and claims 16 and 25-26 have been cancelled. Claims 36-41 are newly added. In light of these and other changes, Examiner hereby withdraws all previous objections.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Kien Le on December 8, 2010.

In the specification, page 2, line 8, change the phrase "by operation of an A.C. electric motor" to --by operation of an alternating current (A.C.) electric motor--

In claim 23, change "30 to 80mm" to --30 to 80 mm--

In claim 31, change the phrase "first and second cam follower sliders each of which is slidably mounted on both said guide rails and carriers thereon a roller defining

the respective first or second cam follower" to --first and second cam follower sliders each of which is slidably mounted on both said guide rails and each of which carries thereon a roller defining the respective first or second cam follower—

In claim 32, change the phrase "first and second cam follower sliders each of which is slidably mounted on both said guide rails and carriers thereon a roller defining the respective first or second cam follower" to --first and second cam follower sliders each of which is slidably mounted on both said guide rails and each of which carries thereon a roller defining the respective first or second cam follower—

In claim 33, change the phrase "first and second cam follower sliders each of which is slidably mounted on said at least one guide rail and carriers thereon the respective first or second cam follower" to --first and second cam follower sliders each of which is slidably mounted on said at least one guide rail and each of which carries thereon the respective first or second cam follower—

In claim 39, change "30 to 80mm" to --30 to 80 mm—

Allowable Subject Matter

Claims 13-15, 19-24, 27 and 30-41 are allowed.

The following is an examiner's statement of reasons for allowance: the prior art of record discloses a pump with first and second pistons which operate via a rotating cam

which cam transfers motion to the pistons through cam followers which can be urged towards the cam through various spring arrangements. However, the prior art of record does not disclose an arrangement including at least one guide rail and first and second cam follower sliders, each slider carrying a cam follower, and which sliders are urged towards each other by at least one spring.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NATHAN ZOLLINGER whose telephone number is 571-270-7815. The examiner can normally be reached on Monday - Thursday, 9 a.m. - 4 p.m. EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Devon Kramer can be reached on 571-272-7118. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Devon C Kramer/
Supervisory Patent Examiner, Art
Unit 3746

/N. Z./
Examiner, Art Unit 3746